



PCT

特許協力条約に基づいて公開された国際出願

(51) 国際特許分類7

H04N 5/262, 5/91

A1

(11) 国際公開番号

WO00/40011

(43) 国際公開日

2000年7月6日(06.07.00)

(21) 国際出願番号

PCT/JP99/07419

(22) 国際出願日

1999年12月28日(28.12.99)

(30) 優先権データ

特願平10/373855

1998年12月28日(28.12.98)

JP

(71) 出願人 (米国を除くすべての指定国について)

ソニー株式会社(SONY CORPORATION)[JP/JP]

〒141-0001 東京都品川区北品川6丁目7番35号 Tokyo, (JP)

(72) 発明者 ; および

(75) 発明者 / 出願人 (米国についてのみ)

高橋 靖(TAKAHASHI, Yasushi)[JP/JP]

〒141-0001 東京都品川区北品川6丁目7番35号

ソニー株式会社内 Tokyo, (JP)

杉山和雄(SUGIYAMA, Kazuo)[JP/JP]

〒112-0006 東京都文京区小日向1丁目6番1号 Tokyo, (JP)

渡辺 誠(WATANABE, Makoto)[JP/JP]

〒133-0052 東京都江戸川区東小岩2丁目4番14号 Tokyo, (JP)

(74) 代理人

小池 晃, 外(KOIKE, Akira et al.)

〒105-0001 東京都港区虎ノ門二丁目6番4号 第11森ビル

Tokyo, (JP)

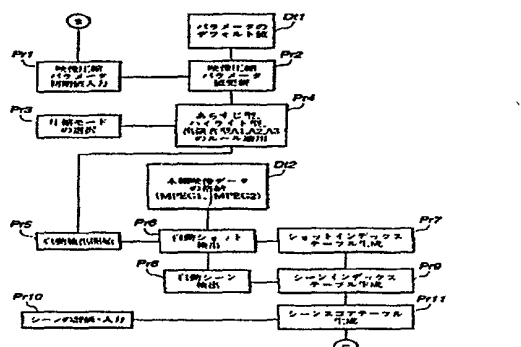
(81) 指定国 CN, JP, KR, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE)

添付公開書類

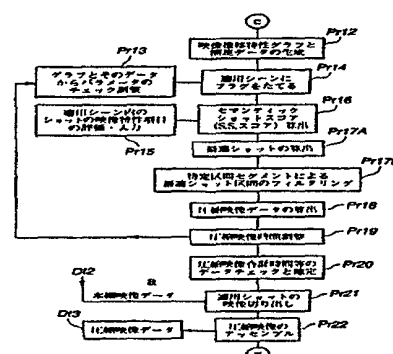
国際調査報告書

(54) Title: **METHOD FOR EDITING VIDEO INFORMATION AND EDITING DEVICE**

(54) 発明の名称 映像情報の編集方法及び編集装置



Pr1...INPUT VIDEO COMPRESSION PARAMETER INITIAL VALUE
Pr3...SELECT COMPRESSION MODE
Dt1...DEFAULT VALUE OF PARAMETER
Pr2...UPDATE VIDEO COMPRESSION PARAMETER
Pr4...APPLY RULES TO STORY LINE TYPE A1, HIGHLIGHT TYPE A2, AND PERFORMER TYPE A3
Dt2...STORE ORIGINAL VIDEO DATA (MPEG1, MPEG2)
Pr5...START AUTOMATIC DETECTION
Pr6...DETECT SHOT AUTOMATICALLY
Pr8...DETECT SCENE AUTOMATICALLY
Pr7...CREATE SHOT INDEX TABLE
Pr9...CREATE SCENE INDEX TABLE
Pr10...EVALUATE AND INPUT SCENE
Pr11...CREATE SCENE SCORE TABLE
Pr13...CHECK AND ADJUST PARAMETER ACCORDING TO GRAPH AND ITS DATA



Pr15...EVALUATE AND INPUT ITEMS OF VIDEO CHARACTERISTICS OF SHOT IN SCENE APPLIED
Pr12...CREATE VIDEO PROGRESSION CHARACTERISTIC GRAPH AND ASSOCIATED DATA
Pr14...PUT UP FLAG IN SCENE APPLIED
Pr16...CALCULATE SEMANTIC SHOT SCORE (S.S. SCORE)
Pr17...CALCULATE OPTIMUM SHOT
Pr17B...FILTER OPTIMUM SHOT SECTION BY SPECIFIC SECTION SEGMENT
Pr18...CALCULATE COMPRESSED VIDEO DATA
Pr19...ADJUST COMPRESSED VIDEO TIME
Pr20...CHECK AND DEFINE DATA ON COMPRESSED VIDEO TOTAL TIME AND SO FORTH
Pr21...EXTRACT VIDEO OF SHOT APPLIED BY SEGMENTATION
Pr22...ASSEMBLE COMPRESSED VIDEO
A...FULL VIDEO DATA
Dt3...COMPRESSED VIDEO DATA

(57) Abstract

The full video of a video title is divided into shot or scene units with time codes. Given condition information, which is semantic evaluation of a story, is added to each scene unit to produce a scene score, scenes necessary for each use and object are extracted according to the scene score and a threshold (process Pr14), evaluation information on video characteristic is added to each shot constituting each extracted scene to produce a shot score (process Pr16), optimum shots for each extracted scene are selected according to predetermined rules adapted to the use and object (process Pr16), the optimum shots are extracted from the full video (process Pr21), and preview video adapted to the use and object is automatically produced (process Pr22).